

CERTIFICATE OF INSPECTION & TEST

(EN 10204 3.1)



ORIGINAL



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CARBON STEEL FITTINGS MADE FROM SEAMLESS PIPE

Date: **FEB.24.2014**

Customer : PLESA ANAHUAC Y CIAS.,S.A.DE C.V.			Contract No :17200 (AMOUNT:USD35,424.28)										Certificate No :MNJ8459								
Spec. for Material			Spec. for Inspection										Surface & Dimension		N.D.E		Heat Treatment				
ASTM/ASME A/SA234-11 WPB (NACE MR0175)			ASME B16.9 - 07										GOOD		N/A		HOT FORMED (620°C ~ 980°C)				
ITEM	STAMP NO.	CHEMICAL COMPOSITION (%)											Tensile Test				Hardness Test(HB)	Hydrostatic Test	C.E		
		C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	Nb	Y-P MPa	T-S MPa	EL (%)	RA (%)					
SIZE	QTY	MIN		0.10	0.29										240	415	30				
		MAX	0.30		1.06	0.05	0.058	0.40	0.15	0.40	0.40	0.08				655			197		
LR 90D ELBOW SCH80			0.17	0.32	1.05	0.011	0.002	0.06	0.01	0.05	0.06	0.06		350	552	30		<197		0.38	
16"	20	2464																			
LR 90D ELBOW SCH80			0.2	0.22	0.55	0.009	0.006	0.19	0.01	0.05	0.06	0.01		264	479	30		<197		0.34	
10"	20	3754																			
LR 45D ELBOW SCH80			0.2	0.22	0.55	0.009	0.006	0.19	0.01	0.05	0.06	0.01		264	479	30		<197		0.34	
10"	20	3754																			
LR 90D ELBOW SCH40			0.2	0.2	0.53	0.009	0.006	0.04	0.01	0.02	0.04	0.01		295	465	30.5		<197		0.30	
20"	4	7255																			
LR 90D ELBOW SCH80			0.21	0.25	0.55	0.01	0.007	0.02	0.01	0.04	0.02	0.02		275	510	33.5		<197		0.32	
20"	2	3220																			

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by the above order.

EXPORT COUNTRY - BUSAN, KOREA
 COUNTRY OF ORIGIN - KOREA
 TOTAL WEIGHT : 14.772.00KGS

1MPa = 145.037 psi
 1MPa = 0.145037 ksi
 1psi = 0.00689 MPa
 1ksi = 6.89476 MPa

C.E. = $C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15$

- Reviewed by
 Witnessed by



 Manager of Q.A Dept.